

**PUBLIC HEALTH AND MEDICAL (EMERGENCY FUNCTION 08)
SITUATION REPORT
ZIKA VIRUS DISEASE 2016
SOUTHERN CALIFORNIA MENINGOCOCCAL DISEASE OUTBREAK 2016
DATE OF REPORT: SEPTEMBER 29, 2016
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
EMERGENCY MEDICAL SERVICES AUTHORITY**

EXECUTIVE SUMMARY

The Medical and Health Coordination Center (MHCC) continues to be activated in response to the Zika Virus Disease and the Southern California Meningococcal Disease Outbreak 2016. The California Department of Public Health (CDPH) and Emergency Medical Services Authority (EMSA) are currently the only Emergency Function 08 (EF 08) partners at the state level reporting on these activations.

The MHCC is coordinating with EF 08 partners, healthcare facilities and local health departments (LHDs) to ensure responses are timely and accurate.

CDPH and EMSA Duty Officer Programs are monitoring the Zika virus and meningococcal disease outbreak after hours and remain in communication with the Regional Disaster Medical and Health Coordination (RDMHC) Programs and the Medical Health Operational Area Coordinator (MHOAC) Programs throughout California.

Zika Virus

As of Friday, September 23, 2016, there have been 302 travel-associated Zika virus infections in California. This number is an increase from 282 cases reported in the last operational period. CDPH centers and programs continue to monitor Zika virus disease and provide information to the MHCC related to their specific activities on a weekly basis.

Meningococcal Disease

Since March 2016, 27 cases of meningococcal disease, including two fatal cases, have occurred among residents or visitors to Los Angeles County, Orange County, Ventura County and the City of Long Beach. Of the 27 cases, 25 are men and of these, 21 identified as men who have sex with men (MSM). Persons with HIV infection are known to be at increased risk of meningococcal disease, and three cases had HIV infection. Of the 26 cases with known serogroup, all have been identified as serogroup C disease.

DUTY OFFICERS ON CALL

Table 1. Duty Officers On Call		
Agency/Program	Duty Officer Information	
CDPH Duty Officer	Name:	Bonnie Sanders
	Contact Information:	916-328-3605
EPO Duty Officer	Name:	Jean Paradis
	Contact Information:	916-328-9025
EMSA Duty Officer	Name:	Jody Durden
	Contact Information:	916-423-0911

STATE/REGION OVERVIEW

Table 2. State/Region Overview		
Region/State	Proclamation/Declaration	Activation
MHCC	None	Level I

OA MEDICAL AND HEALTH SYSTEM OVERVIEW

Table 3. OA Medical and Health System Overview				
Operational Area	Proclamation/Declaration	Activation	System Condition	Prognosis
Mutual Aid Region II				
Alameda County		Department Operations Center activated for Zika on September 2, 2016		

LOCAL HEALTH DEPARTMENT ACTIVITIES

Orange County Health Care Agency

Communications

- The Orange County Health Care Agency Facebook account posted a Facebook advertisement regarding meningococcal disease that was shown from September 20–26, 2016. 3,011 people were contacted, along with 80 page visits, as of September 26, 2016.

Vaccine

- The Orange County Health Care Agency offered federally funded vaccines at two public health department clinics during this reporting period. As of September 26, a total of 482 doses of federally funded vaccines were administered at these two clinics.

CDPH CENTER/PROGRAM RESPONSE ACTIVITIES

Center for Infectious Diseases (CID) Division of Communicable Disease Control (DCDC)

Epidemiology and Surveillance

Zika Virus

The following table provides the number of travel-associated infections with Zika virus in California residents in 2015 and 2016. CDPH is following Centers for Disease Control (CDC) testing guidelines. This table is updated every Friday. As of September 23, 2016, there have been 302 travel-associated Zika virus infections in California.

- Total infections: **302**
- New infections reported this week: **20**
- Cumulative number of infections due to sexual transmission: **2**
- Cumulative number of infections in pregnant women: **36a**
 - Liveborn infants with birth defects: **2b**
 - Pregnancy losses with birth defects: **0c**

Zika virus infections in California, 2015-2016 ^d (as of September 16, 2016)		
County	Travel-associated ^e	Locally acquired ^f
Alameda (City of Berkeley)	19 ^g (2)	0
Contra Costa	14	0
Fresno	1	0
Humboldt	2	0
Kern	3	0
Lake	1	0
Los Angeles (City of Long Beach)	76 ^h (5)	0
Marin	4	0
Merced	3	0
Monterey	3	0

Napa	2	0
Orange	22	0
Riverside	7	0
Sacramento	5	0
San Bernardino	12	0
San Diego	45 ⁱ	0
San Francisco	23	0
San Joaquin	6	0
San Mateo	7	0
Santa Barbara	4	0
Santa Clara	20	0
Santa Cruz	2	0
Solano	1	0
Sonoma	6	0
Stanislaus	2	0
Tulare	3	0
Ventura	3	0
Yolo	4	0
Yuba	2	0
Total	302	0

^a Local Health Departments and CDPH are monitoring all pregnant women and their infants

^b Includes microcephaly, calcium deposits in the brain indicating possible brain damage, excess fluid in the brain cavities and surrounding the brain, absent or poorly formed brain structures, abnormal eye development or other problems resulting from damage to the brain that affects nerves, muscles and bones, such as clubfoot or inflexible joints.

^c Includes miscarriage, stillbirths, and terminations with evidence of the birth defects mentioned above

^d Total number includes laboratory-confirmed and probable infections as defined by the Council of State and Territorial Epidemiologists ([CSTE](#)) [Position Statement](#)

^e Persons exposed through travel to an affected area or contact with a traveler

^f Presumed local mosquito-borne transmission

^g Includes two residents of the City of Berkeley

^h Includes three resident of the City of Long Beach

ⁱ Includes one non-resident

- 302 Zika Cases in California as of 9/23/16. 20 new infections in the past week. To date there have been, 0 cases of local transmission, 2 cases of sexual transmission and 36 cases in pregnant women in California. To date there have been two affected infant and one woman infected with Zika gave birth to a healthy baby, but further testing and monitoring is occurring.

- A possible local transmission case was reported last week in a San Diego resident. *Aedes aegypti* mosquitos have been detected in the yard of a person with symptoms of Zika and no history of travel. Initial testing for Zika was negative. A sample from this individual to complete testing for Zika is currently being sent to Viral Ricettsial Disease Laboratory. Results from this test should be available within the week.
- CDC is potentially changing the guideline recommendation for how long couples should wait to conceive after visiting a Zika impacted country. In addition, CDC may make changes to expand testing recommendations. CDPH is preparing for the possibility of an increase in testing volume that might come from these or other developments.

Meningococcal Disease

Outbreak Surveillance Definitions:

- A meningococcal disease case is currently considered possibly related to the outbreak if there is an epidemiologic linkage to Los Angeles County/City of Long Beach/Orange County and is serogroup C, or if serogroup could not be determined (e.g., isolate no longer available).
- A meningococcal disease case is related to the outbreak if it matches the outbreak strain via genetic sequencing at CDC.

Summary:

- No new meningococcal disease cases suspected to be linked to this outbreak were reported during this reporting period.
- 27 cases have been identified as linked or possibly linked to the outbreak:
 - The most recent illness onset was on September 16, 2016
 - Cases were reported from Los Angeles County LHD (n=11), City of Long Beach LHD (n=7), Orange County LHD (n=7), Ventura County LHD (n=1), Out of State (n=1)
 - 25 of these are males, 21 of whom report having sex with men
 - 13 individuals were Hispanic, 8 White, non-Hispanic, 3 Black/African-American, 2 Asian/Pacific Islander and 1 multi-race
 - 3 individuals had HIV infection
 - 2 individuals have died
 - None of the individuals reported receiving the quadrivalent meningococcal vaccine

Communications

Zika Virus

- Nothing new to report.

Meningococcal Disease

- The purpose of this workgroup is to coordinate activities to communicate with the at-risk population, inform them of the outbreak, and encourage facilitate vaccination.

Vaccine

Meningococcal Disease

- This workgroup no longer meets separately; vaccine concerns are now discussed during the bi-weekly Thursday morning call with impacted and surrounding LHDs.
- Approximately 10,580 doses of federally funded (Title 317) vaccines have been distributed since July 1, 2016 to five local health jurisdictions: Los Angeles County, Orange County, San Diego County, Ventura County and the City of Long Beach.

Vector Surveillance and Control

Zika Virus

- 118 Cities now have *Aedes aegypti* mosquitos
- In the past four years of mosquito data, October is the peak month for new *Aedes aegypti* mosquito detections. Anticipation of detections in new areas is expected for the month of October.
- There has been a cluster of local Zika transmission cases in Sonora, Mexico about 150 miles from the border of California. There have been 10 cases of local Zika transmission and this situation is being monitored carefully.
- *Aedes aegypti* detection is now contiguous across areas south of Hwy 8 in San Diego County.

Laboratory Surveillance

- Continuing to work on communication and coordination between commercial labs and CDPH regarding reporting of positive Zika samples. Quest and Lab Corp are the main commercial labs conducting Zika testing. Lab Corp is currently sending all positive IGM samples to CDC for confirmation and Quest will be sending samples to CDPH.
- As commercial labs do more testing of Zika samples, confirmatory testing for CDPH could increase. CDPH will need to prepare for this by prioritizing and coordinating testing.
- Quest currently posts guidelines on website and has created an electronic form to verify Zika symptoms for clinicians. Currently no information is required to be submitted with a sample for testing. However, information will be needed in order for CDPH to prioritize testing of samples.
- CDPH is working on validation of commercial testing kits to increase testing capacity.

Center for Family Health (CFH)

Zika Virus

- CFH is anticipating new CDC guidance for recommendations of how long couples should wait to try and get pregnant after visiting a high-risk Zika country.
- CFH has received grant funding from CDC to expand birth defect monitoring capabilities in coordination with Los Angeles County.

Meningococcal Disease

- Nothing new to report.

Emergency Preparedness Office (EPO)

Zika Virus and Meningococcal Disease

- CDPH, EMSA, and the Department of Health Care Services (DHCS) remain activated in the MHCC at Level 1 (low) to compile and update information about Zika virus and meningococcal disease from a variety of sources, and to coordinate response activities across CDPH Centers/Programs
- MHCC and EPO management regularly participate in teleconferences regarding Zika virus with federal, state and local partners, assist in

development of guidance documents, and coordinate CDPH Center/Program actions

- The MHCC did not have Zika virus-related inquiries in this operational period from response partners

California Health Alert Network (CAHAN)

Zika Virus

- A CAHAN alert was issued announcing a conference call for LHDs to provide updates on the Zika virus. The alert was sent out Monday, September 26, 2016 and the conference call took place Wednesday, September 28, 2016.
- A CAHAN alert was sent on September 29 distributing meeting notes from the LHD Zika call held on September 28.

Office of Public Affairs (OPA)

Zika Virus

- OPA is working to complete the “Local Transmission Communication Plan”
- A news release is being developed concerning the season’s first rain and standing water abatement

Social Media Summary

- Three Twitter posts and four Facebook posts on how to prevent mosquito bites and identify Zika symptoms were issued.

PUBLIC HEALTH ADVISORIES IN EFFECT

Zika Virus

- January 19, 2016: Zika Virus in Latin America
(<http://www.cdph.ca.gov/HealthInfo/discond/Documents/CDPHZikaVirusHealthAdvisory.pdf>)
- May 26, 2016: Zika, Chikungunya, and Dengue in Latin American and the Caribbean
(<http://www.cdph.ca.gov/HealthInfo/discond/Documents/HealthandTravelAdvisoryZikaDenChik05-26-16.pdf>)

CDC GUIDANCE DOCUMENTS RELEASED

Zika Virus

- The following link contains all of the CDC developed documents related to Zika: <http://www.cdc.gov/zika/whats-new.html>

Meningococcal Disease

- A Morbidity and Mortality Weekly Report (MMWR) notes from the field article describing the outbreak of serogroup C meningococcal disease in Southern California was released on September 2, 2016:
<http://www.cdc.gov/mmwr/volumes/65/wr/mm6535e1.htm>

CDPH GUIDANCE DOCUMENTS RELEASED

Zika Virus

- No new updates for this operational period

Meningococcal Disease

- A public fact sheet released in September 2016 titled Serogroup B Meningococcal (MenB) Vaccines can be found here:
<http://eziz.org/assets/docs/IMM-1234.pdf>